

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Takashi OKADA et al.

Serial No.: Not Yet Assigned

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Title: AUTOMATIC TRANSMISSION AND VEHICLE

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend claims 6, 7 and 12 of this application as follows prior to examination. A version with markings to show the changes made is included at the end of this preliminary amendment.

6. (Amended) An automatic transmission according to any one of claims 1 to 3, wherein torque ratio transferred from said 1st axis to said 2nd axis by said 1st gear group, said torque transferring mechanism and said 2nd gear group is one or more.

7. (Amended) An automatic transmission according to any one of claims 1 to 3, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

12. (Amended) An automatic transmission according to any one of claims 1 to 3, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

Please add the following new claims:

--23. An automatic transmission according to claim 4, wherein torque ratio transferred from said 1st axis to said 2nd axis by said 1st gear group, said torque transferring mechanism and said 2nd gear group is one or more.

24. An automatic transmission according to claim 5, wherein torque ratio transferred from said 1st axis to said 2nd axis by said 1st gear group, said torque transferring mechanism and said 2nd gear group is one or more.

25. An automatic transmission according to claim 4, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

26. An automatic transmission according to claim 5, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

27. An automatic transmission according to claim 6, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

28. An automatic transmission according to claim 23, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

29. An automatic transmission according to claim 24, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

30. An automatic transmission according to claim 25, wherein the motor engaged with said transmission is started by said motor generator.

31. An automatic transmission according to claim 26, wherein the motor engaged with said transmission is started by said motor generator.

32. An automatic transmission according to claim 27, wherein the motor engaged with said transmission is started by said motor generator.

33. An automatic transmission according to claim 28, wherein the motor engaged with said transmission is started by said motor generator.

34. An automatic transmission according to claim 29, wherein the motor engaged with said transmission is started by said motor generator.

35. An automatic transmission according to claim 25, wherein the driving force source of said motor generator is transferred to said second axis while shifting.

36. An automatic transmission according to claim 26, wherein the driving force source of said motor generator is transferred to said second axis while shifting.

37. An automatic transmission according to claim 27, wherein the driving force source of said motor generator is transferred to said second axis while shifting.

38. An automatic transmission according to claim 28, wherein the driving force source of said motor generator is transferred to said second axis while shifting.

39. An automatic transmission according to claim 29, wherein the driving force source of said motor generator is transferred to said second axis while shifting.

40. An automatic transmission according to claim 4, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

41. An automatic transmission according to claim 5, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism

provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

42. An automatic transmission according to claim 6, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

43. An automatic transmission according to claim 7, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

44. An automatic transmission according to claim 8, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

45. An automatic transmission according to claim 9, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

46. An automatic transmission according to claim 10, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

47. An automatic transmission according to claim 23, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

48. An automatic transmission according to claim 24, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism

provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

49. An automatic transmission according to claim 25, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

50. An automatic transmission according to claim 26, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

51. An automatic transmission according to claim 27, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

52. An automatic transmission according to claim 28,
further comprising

a motor generator for generating the driving force source
and regenerating the torque, and a transferring mechanism
provided between wheels to which the torque of said transmission
is not transferred and the motor generator, for transferring and
interrupting the torque.

53. An automatic transmission according to claim 29,
further comprising

a motor generator for generating the driving force source
and regenerating the torque, and a transferring mechanism
provided between wheels to which the torque of said transmission
is not transferred and the motor generator, for transferring and
interrupting the torque.

54. An automatic transmission according to claim 30,
further comprising

a motor generator for generating the driving force source
and regenerating the torque, and a transferring mechanism
provided between wheels to which the torque of said transmission
is not transferred and the motor generator, for transferring and
interrupting the torque.

55. An automatic transmission according to claim 31,
further comprising

a motor generator for generating the driving force source
and regenerating the torque, and a transferring mechanism

provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

56. An automatic transmission according to claim 32, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

57. An automatic transmission according to claim 33, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.

58. An automatic transmission according to claim 34, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.--

REMARKS

This Preliminary Amendment is being filed in order to
eliminate improper multiple claim dependencies.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In each claim appearing below, deletions are bracketed and additions are underlined.

6. (Amended) An automatic transmission according to any one of claims 1 to [5] 3, wherein torque ratio transferred from said 1st axis to said 2nd axis by said 1st gear group, said torque transferring mechanism and said 2nd gear group is one or more.

7. (Amended) An automatic transmission according to any one of claims 1 to [6] 3, wherein the gear engaged with one of said drive gears fixed to said first axis is provided on another axis different from said first axis and said second axis,

further comprising a motor generator for driving and regenerating, and a torque transferring mechanism for adjusting the torque transfer between said gear and said motor generator.

12. (Amended) An automatic transmission according to any one of claims 1 to [10] 3, further comprising

a motor generator for generating the driving force source and regenerating the torque, and a transferring mechanism provided between wheels to which the torque of said transmission is not transferred and the motor generator, for transferring and interrupting the torque.